

**CONTROL FOR A SWITCHING POWER  
SUPPLY HAVING AUTOMATIC BURST MODE OPERATION**

Jin-ho Choi  
Dong-young Huh

**ABSTRACT OF THE DISCLOSURE**

[0084] Provided is a control module circuit for use with a switching power supply (SPS). The control module circuit has normal and standby operation modes controls switch-on/off operations of a switching device by using a feedback voltage that is inversely proportional to an output voltage. The control module circuit includes a voltage set-up unit and a switching control signal generating unit. The voltage set-up unit provides a first voltage used for a switch-on operation of the switching device in response to changes in the feedback voltage and a second voltage used for a switch-off operation of the switching device in response to changes in the feedback voltage, in the standby operation mode. The switching control signal generating unit generates a control signal used to turn on the switching device when the first voltage is provided from the voltage set-up unit and a control signal used to turn off the switching device when the second voltage is provided from the voltage set-up unit.